







### Let's Talk Regulatory: Options and Alternatives

## Renewable Action Plan

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Imperial Valley Renewable Energy Summit March 14th, 2013



# Renewable Energy Development Job Creation





#### California is on the path to recovery:

- To keep the momentum, California needs to remain competitive on a global scale and continue to diversity its economy
- Innovation is the cornerstone of tomorrow's economy and job creation efforts
- California has the highest number of Green Jobs in the U.S. with over 318,000 CA's employed in high paying green jobs, a workforce second only to high tech
- Entrepreneurs are driving innovation and the state is encouraging innovation through the framework of AB 32: The Global Warming Solutions Act of 2006 – Examples:
  - Renewable Portfolio Standard (RPS)
  - Clean Energy RD&D
  - California Solar Initiative
- Clean energy workforce requires a large workforce for construction and skilled managers, laborers and engineers to continue operations and maintenance for 20-30 years



# Renewable Action Plan

- Renewable Status & Issues Report developed during 2011 IEPR identified renewable challenges and suggested strategies
  - Identifying & prioritizing geographic areas for renewable development
  - Evaluating costs and benefits of renewable projects
  - Minimizing interconnection costs & time at the transmission and distribution levels
  - Promoting incentives for projects that create in-state jobs and economic benefits
  - Promoting & coordinating existing financing and incentive programs for critical stages in the renewable development continuum





# Renewable Action Plan *Principles*



- Promote renewable-centric portfolio that maximizes benefits and minimizes cost/risk
- Position California for higher renewable targets
- Fill gaps left by market
- Recognize connections between actions
- Broaden electricity planning
- Promote clean energy investments
- Address cost issues



# 2012 IEPR Update

#### Priority Actions - Renewable Action Plan

| Action  | Lead Agencies/Actors   |
|---|--|
| Strategy 1: Identify Preferred Geographic Areas for Renewable Development   |  |
| Action 2: Identify renewable energy development zones   | Energy Commission, regional/local governments, Governor's Office of Planning and Research, Renewable Energy Action Team, utilities                       |
| Strategy 2: Maximize Value Through Appropriate Assessment of Benefits and Costs   |  |
| Action 5: Modify procurement practices to develop a higher value portfolio  | California Public Utilities Commission   |
| Action 6: Revise residential electricity rate structures  | California Public Utilities Commission   |
| Strategy 3: Minimize Interconnection and Integration Costs and Requirements   |  |
| Action 9: Consider environmental and land-use factors in renewable scenarios  | Energy Commission, California Public Utilities Commission, California Independent System Operator  |
| <b>Action 12:</b> Develop a dialogue on distribution planning and opportunities for a more integrated distribution planning process | Energy Commission  |
| Action 16: Develop a forward procurement mechanism  | California Public Utilities Commission, California Independent System<br>Operator  |
| <b>Action 17:</b> Define clear tariffs, rules, and performance requirements for integration services                                | California Public Utilities Commission, California Independent System<br>Operator  |
| Strategy 4: Economic Development With Renewable Energy  |  |
| Action 20: Better align workforce training to needs   | Labor Workforce Development Agency, California Workforce Investment<br>Board, Division of Apprenticeship Standards, Employment Development<br>Department |
| Strategy 5: Research and Development and Financing  |  |
| Action 25: Promote research and development for renewable integration   | Energy Commission  |
| Action 28: Support long-term extension of federal tax credits   | Office of the Governor   |